



AUGUST 1988

COLORADO SPRINGS,  
COLORADO



PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.  
P.O. Box 16521  
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# Ø BEAT



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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Keith Coobie NYØT, 5335 Coneflower Ln., Colorado Springs, CO 80917 637-1525

## RESCUE IN DENVER AREA

At 1952 PM on Monday July 18, 1988 two Amateur Radio operators, Mill Bonham (KYØE) and Bruce Bevers (KA0CPI), were piloting a single engine airplane in the mountains West of Denver Colorado. The plane crashed into a mountain side and miraculously neither occupants were injured. The aircraft flipped on its top destroying the aircraft antennas as well as its avionics radios. As it turned out, the ELT (emergency locator transmitter) did not activate upon impact. The two amateurs were stranded without communication approximately 50 miles West South West of Denver in rugged mountain terrain.

With darkness fast approaching the Amateurs found that their only form of communications was a ham walkie-talkie. The only accessible repeater was the Colorado Repeater Association's 147.225 Mhz (WDØPVV/R) machine. The CRA 147.225 repeater covers 100 miles both North and South of Denver along the front range of the Rocky Mountains.

Doug Lomax (KAØYAU) was in QSO with several other hams when the "emergency break" was heard. All traffic was immediately halted and Doug received the downed plane report. The Civil Air Patrol was contacted, an emergency net was instituted, and scheduled times were set for contact with the downed plane to conserve their batteries.

The CAP used the CRA repeater to confirm the area of search until a local TV channel helicopter established a visual sighting. Special air

mountain search and rescue teams were dispatched from Denver to locate the wreckage and remove the two hams.

Three Amateurs, Bob Ragain (WB4ETT), Greg Burnett (KOØLM), and Warren Gretz (NØPVG) pressed their direction finding skills into action. The three amateurs were the first to receive the now turned on ELT and were 30 minutes ahead of the CAP in ascertaining the downed plane was on the West side of the Continental Divide rather than as first determined on the East side. That information was relayed and valuable time saved.

Six hours after the crash the pilots were transported to waiting vehicles for the trip to Denver. The CRA repeater was then returned to normal service.

Mike Barnell WDØPVV

## AUGUST MEETING

The next regularly scheduled meeting of the Pikes Peak Radio Amateur Association will be held on Wednesday, 10 August 88, at 7:30 pm at Giuseppe's Depot at #10 Sierra Street.

The guest speaker this month will talk about Microwave Technology and some of the Weapons that are being developed along that line as well.

Everyone is invited to attend.

## "THE VIEW FROM THE PEAK"

by George Hinds, N8CIX

### PLANE CRASHES; HAM RADIO BRINGS HELP

Recently a single-engine Civil Air Patrol plane crashed on Kenosha Pass near Fairplay, CO. It was on a training mission; the two airmen on board were not injured.

The craft was a Cessna 182. It developed engine trouble flying 80 miles southwest of Denver late in the evening; the crewmen landed the plane but in doing so the antennae were damaged. Their calls for help went unanswered.

However, one crew member was an amateur radio operator and successfully used his ham walkie-talkie to report the problem via a Denver area repeater. Shortly, search aircraft were able to pick up the distress signal from the plane's emergency locator transmitter and at about 2 a.m. rescuers were at the crash site.

If there is a moral to this story (and there is) it's to not leave home without a 2-meter rig... you never know when your need to communicate may be essential to personal safety, perhaps even survival.

### SOME THOUGHTS ABOUT WORDS...

Some terribly dull conversations take place via ham radio - the "ld" on the repeater who thinks he sounds like an "old timer" because he fills the air with "QSL" and "QSY" repeatedly; the person who daily just has to interrupt a conversation in progress "to find out how my new antenna sounds" (think about that a while); the "drone" who drones on for what seems to be forever about such major tragedies as a blown fuse (and you wish it would hurry and blow again), etc., etc.

Sometimes people need help to become conversational - a couple of hundred years ago it probably was easier. After all, without TV, radio, etc., practice at conversation was almost the only thing open to pass the time. Today, sitting mute before the TV for hours, it's a wonder that as many marriages survive as do...

But when you've just about decided to turn the rig off, along comes someone on the air who, when he or she talks, tells a story in words that are almost pictures. Suddenly, folks listen-

ing don't feel the urge to run away; they enjoy what they are hearing.

"Picture-talkers" seem to have closed their eyes for a moment before speaking. They "see" a picture of what they will talk about. Then they describe the picture in words with plenty of attention-grabbing adjectives. You and I listen with interest to such conversations - wouldn't it make ham radio infinitely more interesting if more hams spoke in "picture-talk"?

### ON THE OTHER HAND...

At least three topics of conversation on the air seldom, if ever, pay off in friendship for ham radio operators: Politics, Profanity and Religion. Allowing yourself to become embroiled over such highly personal and contentious subjects as politics and religion with other hams is almost a guarantee of becoming involved in arguments, followed by splintered, perhaps even broken, friendships.

The hazards of politics and religion are obvious to thinking people; the hazards of profanity should be.

A person constantly relying on "hell" or "damn" or worse on the air or off is demonstrating a lack sufficient command of the English language to express themselves effectively. Profanity on the air is offensive; never mind that it may be in everyday use elsewhere, it never improves the image that others have of you, the user!

I'm reminded of how often we've sat around at meetings and thought of the vast number of listeners out there in "scanner land" to amateur radio conversations. You never know who is listening: people who may have considerable influence over the future well-being of the amateur radio service - congressmen, city and state officials, etc. The list is long - the influence unknown at the moment. If we care (and we should) that they get a good impression of the amateur radio service and those who have been granted the privilege to use the airwaves allocated to amateurs, then it would be in our best interests to make one of our first priorities the "cleaning up of our act" by ending the use of profanity...

### PLANNING A TRIP TO DISNEYLAND?

Take along your 2M walkie-talkie. I'm told that Disneyland has a repeater open to visiting amateurs. To learn how to access it, check in when you enter the park at the business office inside the main gate.

**CONTINUED ON PAGE 8**

# THE ROAD BACK TO HF

## (or Forty Feet Finally)

WYNE

Upon my family's arrival in Colorado Springs, our first priority in looking for a house was to be in school District 20. With not much money in pocket, we had to settle for a home in Briargate, the only real drawback being some serious covenants. The worst of these was, you guessed it, NO OUTSIDE ANTENNAS. Having been spoiled in Albuquerque with 48 feet of Rohn 25, I knew I wouldn't be satisfied with an "invisible wire" or something equally as bad. After all, I wanted to chase DX (licensed for 26 years and only 82 countries confirmed), and with low power I would never make it through some of the pileups with a poor antenna. So into ham hiatus I went.

Two years later we decided that we could afford to move. My first priority was a place with no covenants. This was my wife's first priority also, since she felt bad I was not able to operate for all this time. (What a terrific lady (not XY), but she also knew that it would keep me off the streets at night.) Well, we found a place that did not prohibit outside antennas, but the Road to HF had a few more challenges than I thought.

Step 1: Get the approval of the Architectural Control Committee. According to the wording of the bylaws I didn't feel that this was necessary, but better to check and get their approval. No problem there.

Step 2: Get a variance to exceed 30 feet of height. This was quite an involved process. It was getting close to when I thought I'd like to put up the antenna, so I thought I'd call the County Land Use office and see what I needed to do. Just by chance, the day I called was the cut off for submitting the package to the next month's approval board. So in a mad dash I went down to see what needed to be done. Five copies of my plan to put up the tower were needed, including a letter of intent, drawing showing location, etc. But this wasn't the hard part. I also had to send a copy of these documents to each of my adjoining neighbors, letting them know of my intentions. I was given the tax schedule numbers, and had to look up the names and addresses in order to send certified letters with the required

information. I even had to sent this letter to the owners of vacant lots, two of which belonged to the Reformed Church of the Latter Day Saints. All were told of the upcoming hearing.

With all the paperwork completed, all I had to do was wait for the appointed day, and WORRY!

Well, the day came, and the meeting went without a hitch. The board did question whether they needed to be concerned about distance from the airport. I kept my mouth shut unless directly asked a question (as suggested by WOYNE), and they wound up answering their own question. The other issue, which Warren said would come up was "climb-proofing" the tower. I was asked if I would take precautions to prevent unauthorized climbing, and of course answered the affirmative.

With approval taken care of, the only task left was putting it up. With the help of Ron, WB6FRV and Rick, N0IZM, we dug a five cubic yard (yes, that's 135 cubic feet) hole and filled it with concrete. Why so much concrete? For the Rohn HDBX self supporting 40 foot tower, that's what the manufacturer recommended. The tower went up with the help of a gin pole made out of 2X4s. The pictures show our efforts putting up the TH6DX beam.

Sincere thanks to WB6FRV, N0IZM, WOYNE, VE1ARC, NYOT, and WB7THT. Even the Land Use office was very helpful in getting me through the wickets to complete the administrative requirements. If you're looking for more information on how to do this, don't hesitate to call.



Phil VE1ARC and Rick WB7THT check out the antenna before it goes up.

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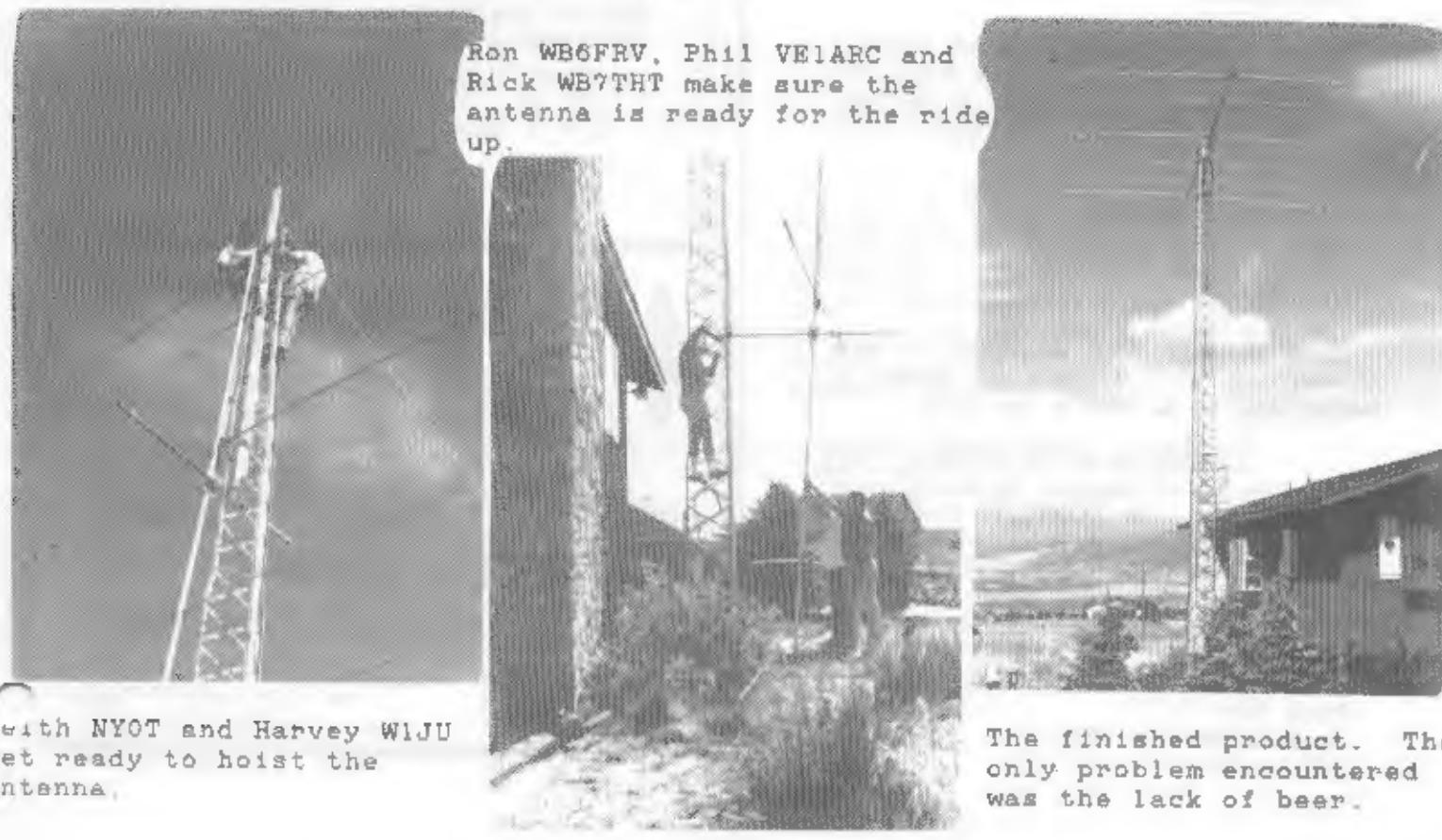
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Keith NYOT and Harvey WIJU  
get ready to hoist the  
antenna.

The finished product. The  
only problem encountered  
was the lack of beer.

## WHERE'S IT AT???

In my last article we talked about where one could find some of the common things that one needs. At that time I told you, I would run some more of that stuff, in the hopes it would help the new comers get used to these hard to find items (where they come from).

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Cary, Illinois 60013  
(312) 439-6400

If your looking to make a circuit board of that latest device you saw in some article, perhaps it already exists, right here in the area. Why don't you try:

Circuit Board Specialists  
P.O.B. 969  
Pueblo, Colorado 81002  
(719)-542-5083

Circuit Board Specialists also supply the parts in many cases, which will solve your problem in locating some of the hard to find items.

About the use of computers for keeping a log on things during the CONTEST WARS. We have a local Ham who turns out a terrific Dos program, for just such a need.

HAMLOG  
R.M. Wilson  
P.O.B. 5830  
Woodland Park, Co. 80866  
(719)-687-2020

While it's true I have not run the program on my XT, I have seen it demonstrated and I might add, if not only simple to use, it was efficient too. See you next month... 73's KD0SQ, PAUL

**AWARD FOR**  
**PUBLIC SERVICE**

Congratulations to Becky Malm (KB6LSX) for receiving her Local Net Certificate by participating in the Southern Colorado Traffic Net. The Southern Colorado Traffic Net is affiliated with the ARRL National Traffic System.

To qualify for this certificate you must be a Net Control Station for a period of three months and scheduled for NCS a minimum of one night a week.

You must also display a professional attitude while not participating as a Net Control Station.

Through Becky's superior performance and outstanding attitude she represents a fine example for new Net Control Stations working for their certificate.

Alfred A. Sonntag KAOWIE  
ARRL Net Manager



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## LOCAL NET CERTIFICATE

This certifies that \_\_\_\_\_  
is duly recognized for participation in the \_\_\_\_\_ **Net**  
and is entitled to receive credit for this **Net** certification or renewal for this NCF and the PNC.

The Service Emergency Coordinator's signature below certifies that this unit is part of the ARRL AMATEUR RADIO EMERGENCY SERVICE. The signature of the Service Traffic Manager below certifies that this Bureau is affiliated with the ARRL NATIONAL TRAFFIC SYSTEM.

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For more information, contact the National Center for Health Statistics at 301-435-2900.

## **PPRAA PICNIC - 1988**

**WHERE - PICNIC AREA #3  
AIR FORCE ACADEMY  
SEE MAP FOR DETAILS**

**WHEN - 28 AUG - SUNDAY**

**ACTIVITIES  
MINI-SWPAFEST  
DRAWING FOR 220 MHZ HT**

**BARBECUE AND REFRESHMENTS**

**QUESTIONS? - CONTACT JIM  
WA9ABB - 598-7543 EVENINGS  
IF YOU HAVE ANY QUESTIONS.**



## **DITS & BITS**

### **FOR SALE**

2.25 kw generator - \$300.00  
35 amp 13.8 power plant - \$200.00 - Contact  
Jake N0CYR @ 634-2223

### **WANTED**

Instruction Manual for a JIL 16 channel scanner  
and same for a Kenwood TR7800/7850. Contact  
AI N0CMW @ 473-1660

### **UPCOMING SWAPESTS**

Sept 25 BARCFEST 88  
Boulder County Fairgrounds  
Details - N0BWS

### **TELEPHONE BBS DOWN**

The Dits & Bits Bulletin Board System is currently down due to a hard disk crash. It is expected that the system will return to operation by Saturday 6 Aug 88. The system will be upgrading in the meantime to have more on-line memory so that more areas of interest may be included. I would like to thank you for your patience in the meantime.

### **PICTURES FOR O-BEAT**

If you have any pictures that you feel may be suitable for inclusion in O-Beat, please send them to Keith NYOT or give a call at 637-1525 at home. Also, if you could include a story to go with the pictures it would be appreciated.

# COLORADO COUNCIL MEETING

The Colorado Council of Amateur Radio Clubs (CCARC) will convene here on Saturday, 10 September 1988 at 1300 to 1600+ hours. We will host delegates from the majority of Colorado ham clubs, plus some from Wyoming and New Mexico. The CCARC is in its fourteenth year. Typical projects are Repeater Frequency Coordination, Swapfest Scheduling, Convention Sponsorship, etc. Our Club (PPRAA) is a charter member of CCARC. All club members are enjoined to attend and welcome delegates from the other major ham clubs. Please come and bring your ideas.

How to get there: If coming from the North or South on 125, take the Academy Blvd. exit (Exit 150 A/B) south to Briargate Blvd. Turn East to Chapel Hills Mall, 1710 Briargate Blvd. The easy end of the Mall has a parking lot (East of Joslin's and West of Furr's). This is the upper level of the mall. You may enter "Service 5" from the parking lot. If you are inside the Mall, go to the upper level, East. The meeting room, "The Meeting Place" is also known as the community as the Community Room. Its entrance is between #407, Lerner's and #405, Shopper's Aid. We will have talks on 146.970 and 146.520. Please accept our welcome. Refreshments will be served.

73, Oak K0ROL

## Phase 3C Operating Frequencies

These are the operating frequencies for the new Oscar-13 satellite which was launched aboard the new Ariane 4 rocket. The satellite is now in operation and signal levels have been excellent on Mode B and Mode L.

Mode B Uplink: 435.420 - 435.570 MHz  
Downlink: 145.975 - 145.825 MHz  
GB: 145.812 MHz  
ER: 145.985 MHz

Mode JL: L Uplink: 1269.620 - 1269.330 MHz  
J Uplink: 144.425 - 144.475 MHz  
RUDAK up: 1269.710 MHz  
L Downlink: 435.715 - 436.005 MHz  
J Downlink: 435.990 - 435.940 MHz  
RUDAK down: 435.677 MHz  
GB: 435.651 MHz

Mode S: Uplink: 435.601 - 435.637 MHz  
Downlink: 2400.711 - 2400.747 MHz  
Beacon: 2400.325 MHz

## CONTINUED FROM PAGE 2

Tell them you're a ham radio operator and that you've got your 2M rig with you. They'll give you the code (TT) to access the system and they'll explain what's expected of you as a user.

In general, they expect you'll use the repeater for normal contacts with other hams in the park. Furthermore, they'll expect your help with such situations as keeping a lookout for lost children, alerting officials of real or potential problems of a serious nature, etc. In a place the size of Disneyland, park officials need all of the eyes and ears they can muster and hams are in a unique position to be of valuable assistance.

**WITH THE ADVENT OF THE UNIDEN 2510 TEN METER RIG FOR MOBILES,** can we expect to see a "simplex SSB frequency" adopted for the area as in 29.6 for 10M FM? 73, N8CIX

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## AMATEUR RADIO LICENSE EXAMINATIONS

WHEN: Sat, 20 Aug 88 at 9:00 AM  
WHERE: First United Methodist Church  
420 North Nevada Avenue  
Colorado Springs, CO  
WALKINS: Allowed  
TALK-IN: 146.37/97

- 1. Original FCC license, if any
- 2. A copy of your FCC license, if any
- 3. Two forms of positive identification (driver's license, birth certificate, passport or library card)
- 4. \$4.55 check or M.O. payable to ARRL/VEC
- 5. Completed FCC form 610
- 6. If physically handicapped, a physician's certificate describing the nature of the disability. Arrangements should be made prior to testing

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For more information contact:  
Max Stafford 488-9289

## MINUTES OF JUL GENERAL MEETING

*submitted by Al NOCMW, secretary*

The general meeting of the Pikes Peak Radio Amateur Association was held at Giuseppe's Old Depot Restaurant, Wednesday evening 13 Jul 1988. The meeting was called to order by the president Ron NKOP at 19:30, and the introduction of members was bypassed due to the cramped conditions in the temporary accommodations at Giuseppe's.

The minutes of the previous General Meeting and Board meeting were approved as printed in O-Beat. It was noted that the June Board meeting minutes will appear in the August newsletter.

### Committee Reports

**Note:** Anyone wishing to help out on any of these committees, please contact the chairman at the phone number listed. Thank you for your support.

#### Treasurer - Bud NODDF (599-7699)

Previous balance was \$2567.03, income of \$0390.70, expenses of \$226.96, leaving a balance \$2730.77.

#### Interference - Ron NKOP (593-8352)

Nothing to report.

#### Education - Harley KC0TO (634-4555)

There were two volunteers to take over the duties of Harley. They will work as a team and they are Dave N4DJS 531-0633 and Bruce N0IZR 528-6667.

#### Publicity - Karen NIFED (495-0091)

Asked the club members for their ideas on things that the Club should publicize.

#### Colorado Council of Amateur Radio

#### Clubs (CCARC) - Oak K0ROL (591-1426)

The CCARC will meet in the Chapel Hills Mall on Sept 10, 1988 and all local members are encouraged to attend.

#### Deaf and Blind School - Jim WA9ABB (598-7543)

Nothing new as school is out for summer. When school starts again in the fall, will need help for one on one tutoring. Please let Jim or Chris NX0E know if you can help.

O-Beat - Keith NYOT (637-1525)

Needed help for distribution of O-Beats to Radio Shacks. Due to other activities, Bud N0DDP can no longer do this job (Thanks for all your help!). Faye KB0QI has volunteered to head up this job.

ABES - Mallory NOIKE (591-0049)

Al NOCMW stood in for Mallory (who had other commitments that evening) and asked that all people return the info sheets to him so that a good roster can be set up. Also thanks to all those people who answered the emergency call on Sunday morning.

Public Service - Mike KOTER (636-1290)

Mike gave an account of the stations that were worked during the Field Day. He also stated that the Club will be assisting the Tripoli Rocket Society with the rocket launches on Aug 6&7 near Hartsell, the same place as last year.

VE Testing - Max KDQEL (488-9289)

Max stated that the next VE Testing will be 20 Aug 88 at the 1st United Methodist church at St Vrain and Nevada.

SWAPFEST - Les KC0NC (634-3995)

Les would like to thank all those who supported the swapfest and in helping to make it a huge success.

Teller Hill - Doc WOMCT (596-4216)

Thanks to all those who helped to make the radio coverage during the race a success. There will be another call for volunteers for the same race in September.

Picnic - Jim WA9ABB (598-7543)

Picnic will be held on Sunday Aug 28 at Picnic Area #3 at the Air Force Academy. We will be the guests of the AFA Radio Club. Plan on having a mini-swapfest so bring along your old boat anchors in the hope that you may bring a little newer one! NOTE: The 220 Mhz Ht will be given away at this event.

Old Business

Nil

New Business

Karen N1PED told of a public television show concerning old radio equipment. The Board will look into this a little further.

It was discussed that a new place was need to store the club equipment. Max KDQEL has volunteered to look into this matter.

A request was made for someone to type up the Club Bylaws that could eventually be put into a format that could be used by an IBM clone. Renay KA0ROY has volunteered to do this.

Prizes - Keith NYOT

Winners were:

KA9SIM Manual	Wayne	Advanced
KC0NC	Les	Mystery Prize
KA0PXE	Connie	Solder Sucker
KG5N	Nick	Operating Manual
WB2EVR	Bill	Soldering Iron
NK0P	Ron	Magnet Tool
N1PED	Karen	QSL cards
W0MCT	Doc	Extra Lic Manual
KA7NNX	Susan	Tech/Gen Lic Man

Program:

The program was not conducted as the room that is normally used for the Club meetings was undergoing renovations and the room that was temporarily assigned to the Club meeting did not permit a good presentation to be made. This program will be moved to next month.

The meeting was adjourned at 2045.

The next meeting will be 10 July 88.

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**TAB BOOKS**

# **MINUTES OF JUNE BOARD MEETING**

*submitted by Al NOCMW*

The June Board Meeting was held (later than usual) on 5 Jul 88 as a quorum could not be gathered on the regularly scheduled day. In attendance were Bud N0DDF, Al NOCMW, Chris NXOE, Ron NKOP and Keith NYOT.

It was discussed and decided that the dues for a subscription to O-Beat would be raised from \$4.00 to \$6.00.

The Board was made aware of a couple of outstanding billings and the Treasurer agreed that he would pursue this and report at the next Board meeting.

Bud advised that due to other commitments that he could no longer distribute the O-Beats to the local Radio Shacks. Bud was thanked for a job well job. At the next Club meeting a volunteer will be solicited to do this job.

The Board is going to look into getting a new crank up tower for the club trailer.

The Club has to spend the profits gathered from the Swapfest. For the first expenditure, it was agreed to purchase two climbing belts and a single gin pole that could be loaned to club members to assist in their projects.

The amendment made to the Bylaws a couple of months ago will be added to the them and a typist will be required to type up the Club Bylaws on a computer system that can import the data to an IBM PC or clone.

The Board also decide to purchase the North American and International callbooks and they will be retained by the Club secretary for use by the club membership (for a one day loan or a call-up of an address).

The Board will investigate areas that can be used to store the Club equipment and trailer.

The meeting adjourned at 2030 local.

## **Minutes of the July Board Meeting**

*submitted by Al NOCMW*

July Board Meeting was held at the QTH of Al NOCMW and Frances NOIUT and started at 1900 hrs. Present were Ron NKOP, Al NOCMW, Chris NXOE, Keith NYOT, Bud N0DDF, Susan KA7NNX, Max KD0EL, Dave N4DJS, Bruce NO1ZR and Barney KA0BALL.

Bud stated that as part of the raffle agreement, we must spend the profits accrued from the swapfest (\$331.13) by the end of the year to meet state requirements.

It was voted to bring the club trailer into town and store it in a locked yard.

The Board allocated \$150.00 as expenses for the Club Picnic in August.

Based on availability, the club will look at holding a meeting at the HP facility in the Brier gate area.

Max stated that the next VE Exam will be 20 Aug and the one after that will be 19 Nov 88.

It is planned to start the next Novice classes the first week of September. Contact Dave N4DJS 531-0633 and/or Bruce NO1ZR 528-6667 for further info as to date, time, and place.

The Board decide to purchase the videotape of the Radin Program presented by the public TV station. It will serve as a future program for the Club.

The Board is looking for members that would like to serve as an Officer or a Board Member at Large. The election will be held in Oct. Please let any of the Board know if you are interested.

The meeting adjourned at 2100 hrs.

## **AIR FORCE ACADEMY RADIO CLUB**

The Club had it's regularly scheduled meeting at Arnold Hall on July 14. The next meeting will be held on 9 Aug 88 at 1115 hrs in the same location (Note the change of day). The Club will host the PPRAA for its picnic on 28 Aug 1988. Any civilian base employees or active or retired military are invited to join the Club. Please do not forget to pay your dues to the Treasurer and the Club is looking at setting up a station on the Base. Submitted by Al NOCMW.

## MILEY'S RADIO

Jess KØTAA 719 W. 7th St. Florence, Colorado 81226 (719) 784-3040

Hours 9 to 6 Tuesday through Friday — Saturdays 9 to 1 — Evening Hours 7:30 to 10 Tues., Wed., Thurs. (Call Ahead)  
Closed Saturday 1 PM, Sunday & Monday

Will get your phone messages by remote and call you  
that evening or next morning. Please leave both  
day and evening phone numbers on our machine.

If you're looking for a certain rig — put a message  
on our machine and we'll try to find it for you.

In stock all the new equipment plus lots of  
used equipment — please call.

### Hamfest Schedule for 1988 as of August 1:

August 13-14 Amarillo, TX  
We will be at Amarillo.

August 20 Sat. Only Albuquerque, NM

September 3-4 Alamogordo, NM

September 9, 10, 11 Camp out Yellow Pine Campground  
East of Laramie, WY in Medicine Bow National Forest

Yellowpine Campground turn North at Lincoln Monument

September 16, 17 Wichita Falls, TX

Doubtful we'll make it!

September 24 Sat. Only Santa Fe, NM

National Guard Armory

October 9 Lubbock, TX

### Used Rigs:

Kenwood TS520 80-10M \$400.

Kenwood TS820S 160-10M \$495.

Yaesu 101ZD 160-10M Digital \$495.

Yaesu FV 901DM Scanning VFO w/Memory for 901/101ZD \$275.

Yaesu YO100 Scope \$150.

Yaesu SP901 Speaker \$35.

Yaesu FR101 Matching Recvr for 101 series \$275.

Drake C4 Console w/Remote Ant. Switch - Call

Cushcraft R3 Vertical 10, 15, 20 meter w/control \$150.

73's — Jess

8/88

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### Membership Application PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

P.O. Box 16521

Colorado Springs, CO 80935

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Call \_\_\_\_\_ License Class \_\_\_\_\_

Are You An ARRL Member?  Yes  No Telephone \_\_\_\_\_

Full Member \$12.00  Family Membership \$15.00  Newsletter Only \$4.00  
 Age 65 or older, or under 18 \$8.00

Additional Names \_\_\_\_\_ Call \_\_\_\_\_ Class \_\_\_\_\_

Associate Member \$8.00  (Outside Teller & El Paso Counties.)